

# इंटरनेट

# मानक

## Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6479 (1972): Balls, Punching [PCD 22: Sports Goods]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR  
BALLS, PUNCHING

**1. Scope** — Dimensions and other requirements of punching balls except bladders.

**2. Material**

**2.1 Case** — Shall be shoulder portion of split hide leather, free from flay cuts vegetable tanned, semi-chrome tanned or chrome tanned, natural or dyed in any colour as agreed to between the purchaser and the manufacturer. However, at the end of tanning operation and before drying, suitable fungicides shall be incorporated into the leather and these shall be effective and non-toxic. Further the tanned leather shall be substantially fat-liquored and grain finished smooth. The panels of leather used for construction shall be such as will stretch uniformly, so as to avoid the ball losing shape in usage.

**2.2 Stitching Thread** — 5-cord waxed flax or hemp thread.

**2.3 Ball and Socket Joint** — The socket shall be a malleable iron casting, case hardened, smooth and finished bright. The ball shall be of good quality iron casting, surface hardened.

**3. Weight and Dimensions** — The total weight of the ball, complete with bladder, shall not exceed 740 g and shall not be less than 570 g. When finished, the size of the ball shall be approximately greater circumference 865 mm, lesser circumference 840 mm.

**4. Manufacture** — The case shall be of a tanned split hide leather cut from the shoulder, with a cup-piece of similar leather, which shall be strongly sewn in conjunction with the panels fitted at the bottom of the ball. A rounded leather handle of 4 to 4.5 mm substance, approximately 265 mm long, shall be firmly stitched to the top of the ball. A covering piece of leather, having a hole in the centre to admit the bladder tube, if any, shall be fitted, and a second covering piece of leather shall be attached to the inside of the cover at the top in such a way as to enable the covering piece to be drawn over bladder and tube when in ball. A waxed fabric lace for securely closing the opening in the case shall be provided. The case shall be strongly sewn throughout with 24 to 28 stitches per decimetre. A piece of good quality sash line, 610 mm in length, shall be supplied with each ball.

**4.1 Ball and Socket Joint** — In the socket, the diameter of the seating for the ball shall be 27 mm. Three holes shall be drilled in the flange to clear 4.77 mm and countersunk to take the securing screws. The ball shall have a 6.35 mm hole through the centre for taking the eyepin, and shall be recessed to house the nut securing the eye. The diameter of the ball shall be 30.16 mm. The ball shall be truly spherical, smooth and finished bright. The eye shall be forged from mild steel and secured with a circular nut of mild steel. The nut shall be locked by riveting over the pin. Three 19 mm wood screws [ see IS : 451-1961 Specification for wood screws (revised) ] shall be supplied with each fitting for fixing the socket.

**5. Workmanship and Finish** — The balls shall have a neat finish.

**6. Marking** — Each ball shall be clearly and indelibly marked with the manufacturer's name, initials or registered trade-mark.

**6.1 ISI Certification Marking** — Details available with the Indian Standard Institution.

**7. Packing** — To be packed as required by the purchaser.

Adopted 1 March 1972

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